

CLAIM SUMMARY DOCUMENT

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of transferring files between a computer onboard a train and remote base stations, the computer having a data base, the data base including track structure information and location information about multiple remote base stations, the method comprising:

collecting one or more of event recorder data, train performance data and track data from onboard in files on the on-board computer;

determining from the data base the location of the train relative to the track structure and whether the train is within communication range of one of the remote base stations, the determining being made by using location information about the train, information about the track structure and location information about the multiple remote base stations from the data base stored on the computer onboard the train;

establishing from onboard the train a wireless communication with one of the multiple remote base stations determined to be within communication range; and

determining onboard the train which of the files are new since a last transmission and transferring the new files to one of the multiple remote base stations determined to be within communication range.

2. (Currently Amended) A method according to claim 1, including determining whether the remote base station has updates to be transferred and transferring the updates to the on-board computer.

3. (Currently Amended) A method according to claim 2, wherein the updates include one or more of software updates for the on-board computer, operational data and callbook that defines with which remote base stations the onboard computer will initiate communication.

4. (Currently Amended) A method according to claim 2, wherein determining whether the remote base station has updates to be transferred includes comparing the version in the on-board computer to the version in the remote base station and transferring only the additions, changes, and deletions resulting between the comparison.

Claims 5-6 (Cancelled)

7. (Original) A method according to claim 1, wherein, after an interruption of wireless communication, file transfers may be resumed during one or more subsequent communication sessions until all files have been received successfully.

8. (Cancelled)

9. (Previously Amended) A method according to claim 1, wherein the train includes plural event recorders and including transferring data from each of the event recorders to the on-board computer.

10. (Currently Amended) A method according to claim 1, wherein the train includes plural event recorders each being connected to a respective on-board computer; and

the method includes initiating wireless communication between the on-board computers and the remote base station, and transferring event recorder data from each of the on-board computers to the remote base station.

11. (Cancelled)

12. (Currently Amended) A method according to claim 1, including transferring the files from the remote base station to a simulator; operating the simulator with the transferred files; and adjusting parameters of the simulator until data of the simulator matches data from the file.

13. (Withdrawn) A method according to claim 12, wherein the parameters include one or more of grade resistance, curve resistance, rolling resistance, tractive effort of the train's locomotives, dynamic brake effort of the locomotives, pneumatic brake system parameters, and train weight.

14. (Withdrawn) A method according to claim 12, analyzing the data from the files on the simulator after adjusting of the parameters.

15. (Currently Amended) A method according to claim 1, including establishing communication between the remote base station and a remote home base station; and determining what files have to be transferred and transferring the files.

16. (Currently Amended) A method according to claim 15, wherein the files to be transferred from the home base station to the remote base station includes one or more of software updates for the remote base station, software updates for the onboard computer, operational data for the onboard computer, and a callbook that defines with which remote base stations the onboard computer will initiate communication.

17. (Currently Amended) A method according to claim 15, wherein the files to be transferred from the remote base station to the home base include one or more of files received from the on-board computer and files including operation information of the remote base station.

18. (Original) A method according to claim 17, wherein operational information includes one or more of: locomotives contacted, which software updates were transferred, which onboard computer files were received, and communication statistics.

19. (Currently Amended) A method according to claim 15 wherein communication is established between the remote base station and the remote home base station when one or more of the remote base station has new files from the on-board computer, the remote home base station has new software for the remote base station or on-board computer, requested by user and according to a schedule.

20. (Currently Amended) A method according to claim 1, including establishing communication between two remote base stations; and determining what files have to be transferred and transferring the files.

21. (Currently Amended) A method according to claim 20, establishing communication and transferring files between remote stations for all the remote base stations in a subnet.

Claims 22-45 (Cancelled)

46. (Currently Amended) A method according to claim 1, wherein one of the remote base stations includes track data[[;]], and further including the step of transferring the track data from one of the remote base stations to the on-board computer and subsequently transferring ~~the~~ track data from the on-board computer to another remote base station.

47. (Original) A method according to claim 46, including displaying the track data on the train.

48. (Original) A method according to claim 46 wherein the track data includes one or more of signal aspect, crossing gate position, crossing occupancy status, and other trains in the vicinity.

49. (Original) A method according to claim 46 including correlating train performance data with track data.

50. (Cancelled)

51. (Previously Presented) A method according to claim 1, wherein the determining of the location of the train uses a GPS.